



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION VII
726 MINNESOTA AVENUE
KANSAS CITY, KANSAS 66101

MAY 12 1994

Mr. Carl Vass
Fansteel/Wellman Dynamics
P.O. Box 147
Creston, IA 50801

Dear Mr. Vass:

RE: Transmittal of Analytical Results
Fansteel/Wellman Dynamics
Creston, IA
EPA RCRA ID No. IAD065218737

Enclosed you will find a copy of the analytical results from the soil and groundwater samples that were collected at the referenced facility on December 15, 1993, by the U.S. Environmental Protection Agency's authorized representative, Metcalf & Eddy.

If you have any questions regarding this information, please contact me at (913) 551-7747.

Sincerely,

A handwritten signature in cursive script that reads "Donald R. Bahnke".

Donald R. Bahnke
Project Manager
Iowa Section, RCRA Branch
Waste Management Division

Enclosure

cc: Joseph Obr, IDNR (w/encl.)

RCRA



586984

RECYCLE PAPER CONTAINS RECYCLED FIBERS

ANALYSIS REQUEST REPORT

VALIDATED DATA

FOR ACTIVITY: ARD44

DONA, BOB

01/04/94 16:30:01

ALL REAL SAMPLES AND FIELD Q.C.

* FINAL REPORT

FY: 94 ACTIVITY: ARD44 DESCRIPTION: FANSTEEL/WELLMAN DYNAMICS LOCATION: CRESTON IOWA
 STATUS: ACTIVE TYPE: SAMPLING - IN HOUSE ANALYSIS PROJECT: A60
 LABO DUE DATE IS 1/15/94. REPORT DUE DATE IS 2/ 4/94.
 INSPECTION DATE: 12/15/93 ALL SAMPLES RECEIVED DATE: 12/16/93
 ALL DATA APPROVED BY LABO DATE: 01/03/94 FINAL REPORT TRANSMITTED DATE: 00/00/00
 EXPECTED LABO TURNAROUND TIME IS 30 DAYS EXPECTED REPORT TURNAROUND TIME IS 51 DAYS
 ACTUAL LABO TURNAROUND TIME IS 18 DAYS ACTUAL REPORT TURNAROUND TIME IS 0 DAYS
 SITE CODE: SITE:

SAMP. NO.	QCC	M	DESCRIPTION	SAMPLE # STATUS	CITY	STATE	AIRS/ STORET LOC NO	LAY- SECT ER	BEG. DATE	BEG. TIME	END. DATE	END. TIME
001	S		FLOOR SAMPLE	1	CRESTON	IOWA			12/15/93	08:55	12/15/93	08:57
002	S		EAST-SOUTH WALL	1	CRESTON	IOWA			12/15/93	09:15	12/15/93	09:18
003	S		NORTH WALL	1	CRESTON	IOWA			12/15/93	09:53	12/15/93	09:58
004	S		SOUTH-WEST WALL	1	CRESTON	IOWA			12/15/93	10:12	12/15/93	10:18
005	S		EAST WALL	1	CRESTON	IOWA			12/15/93	09:30	12/15/93	09:35
005	D	S	EAST WALL-DUPLICATE	1	CRESTON	IOWA			12/15/93	09:30	12/15/93	09:35
006	W		EXCAVATION GROUNDWATER	1	CRESTON	IOWA			12/15/93	00:00	12/15/93	00:00
007	W		SOUTH WELL	1	CRESTON	IOWA			12/15/93	00:00	12/15/93	00:00
007	D	W	SOUTH WELL	1	CRESTON	IOWA			12/15/93	00:00	12/15/93	00:00

EXPLANATION OF CODES AND INFORMATION ON ANALYSIS REQUEST DETAIL REPORT

SAMPLE INFORMATION:

ANALYTICAL RESULTS/MEASUREMENTS INFORMATION:

SAMP. NO. = SAMPLE IDENTIFICATION NUMBER (A 3-DIGIT NUMBER WHICH IN COMBINATION WITH THE ACTIVITY NUMBER AND QCC, PROVIDES AN UNIQUE NUMBER FOR EACH SAMPLE FOR IDENTIFICATION PURPOSES)

QCC = QUALITY CONTROL CODE (A ONE-LETTER CODE USED TO DESIGNATE SPECIFIC QC SAMPLES. THIS FIELD WILL BE BLANK FOR ALL NON-QC OR ACTUAL SAMPLES):

B = CAL INCREASED CONCENTRATION FOR A LAB SPIKED DUP SAMPLE

D = MEASURED VALUE FOR FIELD DUPLICATE SAMPLE

F = MEASURED VALUE FOR FIELD BLANK

G = MEASURED VALUE FOR METHOD STANDARD

H = TRUE VALUE FOR METHOD STANDARD

K = CAL INCREASED CONCENTRATION FOR FIELD SPIKED DUP SAMPLE

L = MEASURED VALUE FOR A LAB DUPLICATE SAMPLE

M = MEASURED VALUE FOR LAB BLANK

N = MEASURED CONCENTRATION OF FIELD SPIKED DUPLICATE

P = MEASURED VALUE FOR PERFORMANCE STANDARD

R = CAL INCREASED CONCENTRATION RESULTING FROM LAB SPIKE

S = MEASURED CONCENTRATION OF LAB SPIKED SAMPLE

T = TRUE VALUE OF PERFORMANCE STANDARD

W = MEASURED CONCENTRATION OF LAB SPIKED DUPLICATE

Y = MEASURED CONCENTRATION OF FIELD SPIKED SAMPLE

Z = CAL INCREASED CONCENTRATION RESULTING FROM FIELD SPIKE

1 = MEASURED VALUE OF FIRST SPIKED REPLICATE

2 = MEASURED VALUE OF SECOND SPIKED REPLICATE

3 = MEASURED VALUE OF THIRD SPIKED REPLICATE

4 = MEASURED VALUE OF FOURTH SPIKED REPLICATE

5 = MEASURED VALUE OF FIFTH SPIKED REPLICATE

6 = MEASURED VALUE OF SIXTH SPIKED REPLICATE

7 = MEASURED VALUE OF SEVENTH SPIKED REPLICATE

M = MEDIA CODE (A ONE-LETTER CODE DESIGNATING THE MEDIA OF THE SAMPLE):

A = AIR H = HAZARDOUS WASTE/OTHER

S = SOLID (SOIL, SEDIMENT, SLUDGE)

T = TISSUE (PLANT & ANIMAL)

W = WATER (GROUND WATER, SURFACE WATER, WASTE WATER, DRINKING WATER)

DESCRIPTION = A SHORT DESCRIPTION OF THE LOCATION WHERE SAMPLE WAS COLLECTED

AIRS/STORET LOC. NO. = THE SPECIFIC LOCATION ID NUMBER OF EITHER OF THESE NATIONAL DATABASE SYSTEMS, AS APPROPRIATE

DATE/TIME INFORMATION = SPECIFIC INFORMATION REGARDING WHEN THE SAMPLE WAS COLLECTED

BEG. DATE = DATE SAMPLING WAS STARTED

BEG. TIME = TIME SAMPLING WAS STARTED

END DATE = DATE SAMPLING WAS COMPLETED

END TIME = TIME SAMPLING WAS COMPLETED

NOTE: A GRAB SAMPLE WILL CONTAIN ONLY BEG. DATE/TIME

A TIMED COMPOSITE SAMPLE WILL CONTAIN BOTH BEG AND END DATE/TIME TO DESIGNATE DURATION OF SAMPLE COLLECTION

OTHER CODES

V = VALIDATED

COMPOUND = MGP (MEDIA-GROUP-PARAMETER) CODE AND NAME OF THE MEASURED CONSTITUENT OR CHARACTERISTIC OF EACH SAMPLE

UNITS = SPECIFIC UNITS IN WHICH RESULTS ARE REPORTED:

C = CENTIGRADE (CELSIUS) DEGREES

CFS = CUBIC FEET PER SECOND

GPM = GALLONS PER MINUTE

IN = INCHES

I.D. = SPECIES IDENTIFICATION

KG = KILOGRAM

L = LITER

LB = POUNDS

MG = MILLIGRAMS (1 X 10⁻³ GRAMS)

MGD = MILLION GALLONS PER DAY

MPH = MILES PER HOUR

MV = MILLIVOLT

M/F = MALE/FEMALE

M2 = SQUARE METER

M3 = CUBIC METER

NA = NOT APPLICABLE

NG = NANOGRAMS (1 X 10⁻⁹ GRAMS)

NTU = NEPHELOMETRIC TURBIDITY UNITS

PC/L = PICO (1 X 10⁻¹²) CURRIES PER LITER

PG = PICOGRAMS (1 X 10⁻¹² GRAMS)

P/CM2 = PICOGRAMS PER SQUARE CENTIMETER

SCM = STANDARD CUBIC METER (1 ATM, 25 C)

SQ FT = SQUARE FEET

SU = STANDARD UNITS (PH)

UG = MICROGRAMS (1 X 10⁻⁶ GRAMS)

UMHOS = MICROMHOS/CM (CONDUCTIVITY UNITS)

U/CC2 = MICROGRAMS PER 100 SQUARE CENTIMETERS

U/CM2 = MICROGRAMS PER SQUARE CENTIMETER

1000G = 1000 GALLONS

+/- = POSITIVE/NEGATIVE

= NUMBER

DATA QUALIFIERS = SPECIFIC CODES USED IN CONJUNCTION WITH DATA VALUES TO PROVIDE ADDITIONAL INFORMATION ON THE REPORTED RESULTS, OR USED TO EXPLAIN THE ABSENCE OF A SPECIFIC VALUE:

BLANK = IF FIELD IS BLANK, NO REMARKS OR QUALIFIERS ARE PERTINENT. FOR FINAL REPORTED DATA, THIS MEANS THAT THE VALUES HAVE BEEN REVIEWED AND FOUND TO BE ACCEPTABLE FOR USE.

I = INVALID SAMPLE/DATA - VALUE NOT REPORTED

J = DATA REPORTED BUT NOT VALID BY APPROVED QC PROCEDURES

K = ACTUAL VALUE OF SAMPLE IS < VALUE REPORTED

L = ACTUAL VALUE OF SAMPLE IS > VALUE REPORTED

M = DETECTED BUT BELOW THE LEVEL OF REPORTED VALUE FOR ACCURATE QUANTIFICATION

O = PARAMETER NOT ANALYZED

U = ACTUAL VALUE OF SAMPLE IS < THE MEASUREMENT DETECTION LIMIT (REPORTED VALUE)

ANALYSIS REQUEST DETAIL REPORT

ACTIVITY: 4-ARD44

VALIDATED DATA

COMPOUND	UNITS	001	002	003	004	005
SG07 SOLIDS, PERCENT	%	77.8	77.2	83.1	78.8	79.4
SG23 PH, SOIL	SU	7.86	6.21	8.46	8.35	7.54
SM08 CHROMIUM, TOTAL, BY ICAP	MG/KG	4430	4760	3940	2470	15100
ZZ01 SAMPLE NUMBER	NA	001	002	003	004	005
ZZ02 ACTIVITY CODE	NA	ARD44	ARD44	ARD44	ARD44	ARD44

ANALYSIS REQUEST DETAIL REPORT

ACTIVITY: 4-ARD44

VALIDATED DATA

COMPOUND	UNITS	005 D	006	007	007 D
SG07 SOLIDS, PERCENT	%	78.8			
SG23 PH, SOIL	SU	7.65			
SM08 CHROMIUM, TOTAL, BY ICAP	MG/KG	11200			
WG23 PH, LAB	SU		7.80	6.72	6.77
WM08 CHROMIUM, TOTAL, BY ICAP	UG/L		44000	220	197
ZZ01 SAMPLE NUMBER	NA	005	006	007	007
ZZ02 ACTIVITY CODE	NA	ARD44	ARD44	ARD44	ARD44